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Core Facility | Augsburg

## Liquid Biopsy Lab



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### Instrumentation:

The Facility provides services for isolation, processing, analysis and preparation for banking of body liquids. Currently, the Liquid Biopsy Lab focuses at circulating cell free nucleic acids, especially ccfDNA. Preparation of libraries for various applications is supported by a robust instrumentation infrastructure (e.g. Covaris, Bioanalyzer, Quantus, Maxwell and more). Large numbers of incoming samples can be handled stringently and in a timely manner through expansion and automation of our instrumentation infrastructure (e. g. by acquisition of liquid handling robots).

### Services:

- Standardized preparation, quality assessment and banking of liquid biopsies (including blood plasma but also other body fluids such as cerebrospinal fluid, effusions and others)
- Isolation and quality assessment of circulating cell free DNA (ccfDNA)
- Analysis of ccfDNA including dPCR assays and gene panel NGS (e. g. by CAPP-seq)

Currently being established and expected in the near future:

- Analysis of ccfDNA by custom gene panel NGS
- Epigenomic analyses based on ccfDNA (DNA methylation assessment, nucleosome positioning)
- Isolation, enrichment and characterization of circulating tumor cells (CTCs) by the CELLSEARCH system

### Contact Information:

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## Staff Directory:

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